PETDB APPLICATION HIGHLIGHTS (GUI ENHANCEMENTS)

- Added a background color to the GUI, as well as the PetDB logo that scales and resizes when the GUI is resized.

- Changed the background color of Panel 2 to match the color of the PetDB logo.

- In the unedited version of QueryRunner, all queries were displayed even before the user logged in. In our version, we have cleaned up the user interface so that the application features (queries) are hidden from display prior to the user logging in.

- Upon disconnection, we hid any previous query outputs or query components for cleanliness. No residual query leftovers after the user disconnects.

- Added a second panel as a text box to display the status of the user's query, a description of the query, and instructions on how to proceed with the GUI.

- Added an error message with the appropriate error message (e.g. "cannot proceed due to an invalid entry") in the aforementioned second panel to inform the user when a query fails and for what reason. This involved editing the JDBC program file as well.

- Added a description of the query so that each time a query is selected from the GUI drop down, the description is displayed to the user.

- In the unedited version of QueryRunner, text boxes were wrapping inappropriately and sentences/words were cut off and then erroneously resuming on new lines. This has been corrected in our version, where text boxes now wrap sentences and words appropriately without data loss.

PETDB APPLICATION – USER INSTRUCTIONS

Legend:
Files
Applications

Step 1: Obtain access to the database:

1. Open *MySQL Workbench* and connect to your preferred MySQL Connection. We recommend connecting to your local connection. Take note of the username and host name of whichever connection you choose to use. See screenshot for example of where you can find your username and hostname - they are highlighted in green in the example below:
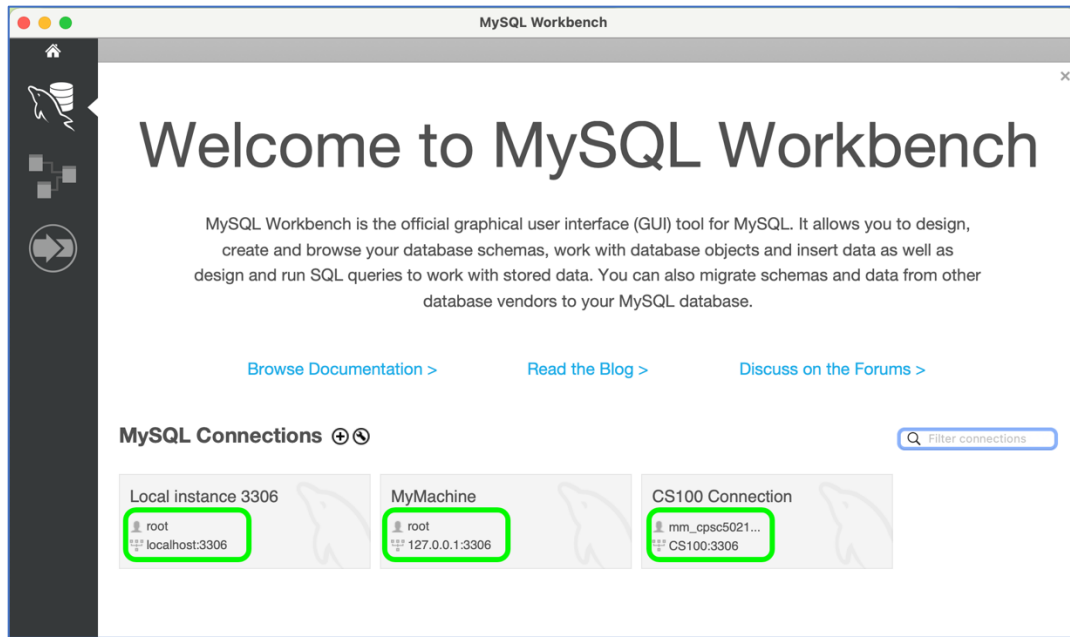
2. Now that you have connected to your preferred MySQL Connection, open file *milestone3dump.sql.* This should open a query editor tab in *MySQL Workbench*. Click the lightning bolt button to execute the queries. Successful query execution will create the database in your *MySQL Workbench*.

3. If you encounter exceptions during execution, contact Team 4 for troubleshooting.

4. Refresh your schemas and note the addition of schema **mm_cpsc502101team04**. This is the name of the PetDB database.

5. Now that you have the PetDB database in your MySQL, it's time to obtain the user application.

Step 2: Obtain access to the application:

1. Download the provided *QueryRunner.zip* zip file. Move the downloaded zip file to your preferred location on your computer – desktop will work just fine.

2. Decompress the zip file by double-clicking. This should create an unzipped folder called *QueryRunner.*

3. You have now obtained the user application, and it is time to run it using *IntelliJ*.

Step 3: Run the application:

1. Open *IntelliJ* and select the option to open a file from your computer. Navigate to wherever you saved the *QueryRunner* decompressed file, and select the *QueryRunner* folder. This will open the QueryRunner program files in *IntelliJ*.

2. You can now make the choice of running the PetDB application either through your console, or through our GUI.

   o *Console application option*:
      ▪ Modify configurations: Edit your configuration and enter "-console" in the Program Arguments for the Command Line Argument field under "Build and run". Apply and close the configurations.

   o *GUI option*:
      ▪ Modify configurations: Edit your configuration and remove "-console" in the Command Line Argument field under "Build and run." Apply and close the configurations.

3. Once you've selected your application (Console or GUI), it's time to connect to the PetDB database that you downloaded earlier.

4. Build and run the QueryRunner project in *IntelliJ*.

5. In both the console and the GUI, you will be prompted with the following to login and connect the PetDB application in *IntelliJ* to the PetDB database in *MySQL*:

   a. Enter hostname: Enter the hostname of the MySQL Connection where the **mm_cpsc502101team04** schema resides. Referring back to screenshot 1 above, if you chose MyMachine as your connection, the hostname will be "127.0.0.1". Do not include "3306" in the hostname.

   b. Enter username: Enter the username of the MySQL Connection where the **mm_cpsc502101team04** schema resides. Referring back to screenshot 1 above, if you chose MyMachine as your connection, the username will be "root".

   c. Enter password: Enter the password of the MySQL Connection where the **mm_cpsc502101team04** schema resides.

   d. Enter database: Enter **mm_cpsc502101team04.**

6. You have now connected successfully! The queries are now available for you to run. In the console, you can enter the number of the query you wish to run. In the GUI, you can use the drop down to select the query you wish to run. It is now time to test each query.

<u>Step 4: Test each query</u>:

- For your convenience, we have included sample inputs for each parameter to help you test the queries.

- Query 1: Get invoice and owner information for invoice amounts greater than the average amount.
  - No parameters.
  - Run query.

- Query 2: Get pet information for a specified pet category.
  - Parameters:
    - PET CATEGORY: "dog"
  - Run query.

- Query 3: List prescription information from all appointments for a specified pet.
  - Parameters:
    - PET NAME: "Lidia"
  - Run query.

- Query 4: Get the max and min invoice costs for each owner during a specified range of dates.
  - Parameters:
    - START DATE: "2022-01-01"
    - END DATE: "2022-12-31"
  - Run query.

- Query 5: List a complete health record and owner information for a specified pet.
  - Parameters:
    - PET NAME: "Barney"
  - Run query.

- Query 6: Get owner information, pet information, appointment date and service description for specified service description, owner's last name, and/or pet name.
  - Parameters:
    - SERVICE DESCRIPTION: "vaccine"
    - OWNER'S LAST NAME: "Barbier"
    - PET NAME: "Mel"
  - Run query.

- Query 7: Get veterinarian and clinic information based on specified veterinarian specialty.

- o Parameters:
  - ▪ DESIRED SPECIALTY: "orthopedic"
- o Run query.

- Query 8: Get pet prescription information and the associated veterinarian and appointment IDs for a specified clinic.
  - o Parameters:
    - ▪ CLINIC NAME: "Vipe"
  - o Run query.

- Query 9: Get a service description and average service cost for all services provided by a specified clinic during a specified range of dates.
  - o Parameters:
    - ▪ CLINIC NAME: "Vipe"
    - ▪ START DATE: "2021-01-01"
    - ▪ END DATE: "2021-12-31"
  - o Run query.

- Query 10: Insert a new pet into PetDB.
  - o Parameters:
    - ▪ PET ID (required): "71"
    - ▪ PET NAME: "Bobby"
    - ▪ OWNER ID (required): "5"
    - ▪ PET WEIGHT (required): "25"
    - ▪ PET COLOR: "brown"
    - ▪ PET CATEGORY: "dog"
    - ▪ PET BREED: "corgi"
    - ▪ PET DOB (required): "2021-06-03"
  - o Run query.

- Query 11: Delete a pet from PetDB.
  - o Parameters:
    - ▪ PET ID: "71"
    - ▪ PET NAME: "Bobby"
  - o Run query.
- Disconnect (GUI) or Query 12 (console).

Thank you for using the PetDB application! For further questions or troubleshooting, please contact Team 4.